

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P317051

Luminaire Tested: **GAN-SA7C-727-U-RW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317051
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-7)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7C-727-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42766 lumens
Efficiency: N/A
Efficacy: 109.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B5 - U0 - G5

Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

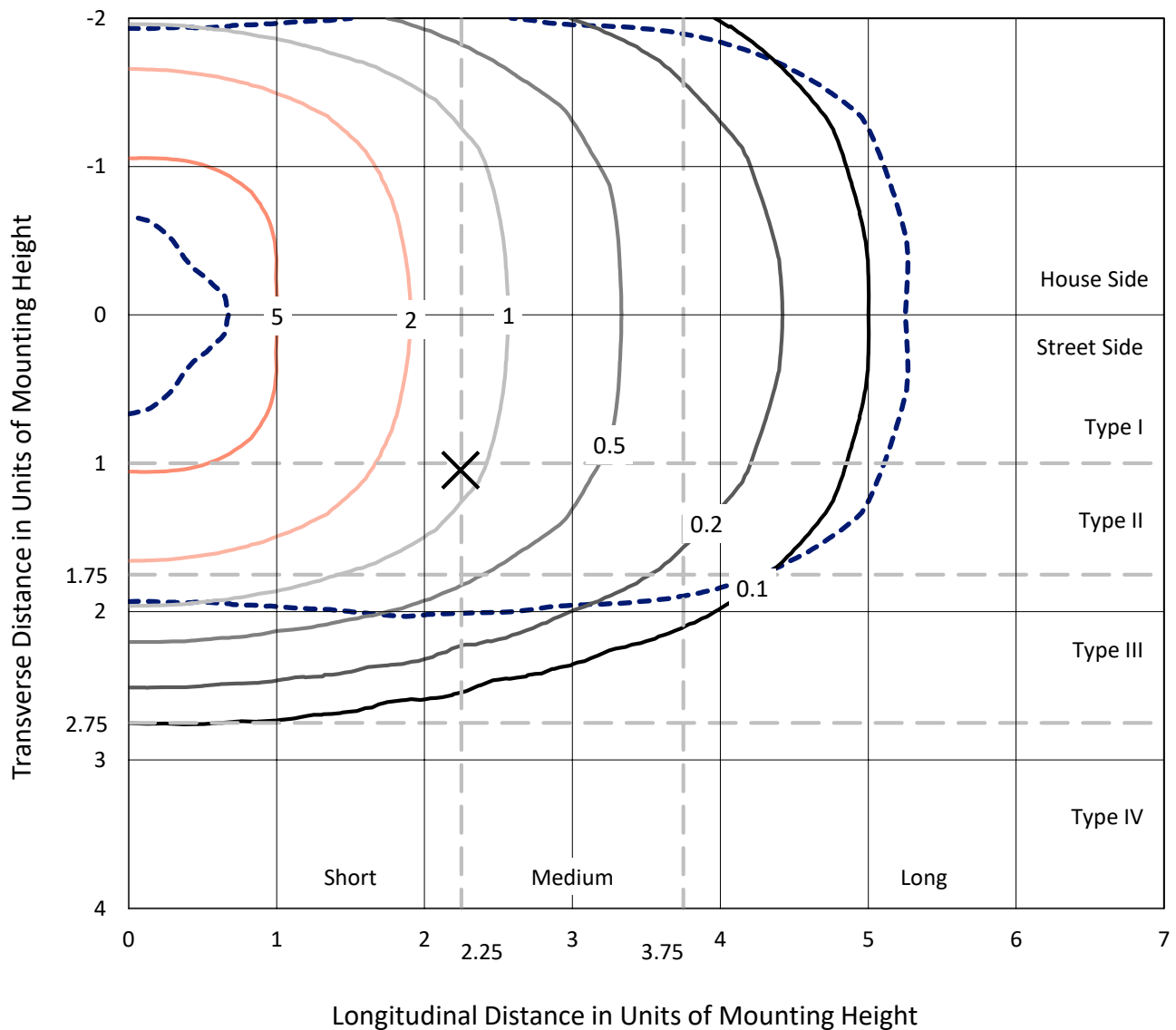


REPORT NUMBER: P317051

CATALOG NUMBER: GAN-SA7C-727-U-RW

Iso-Footcandle Lines of Horizontal Illumination

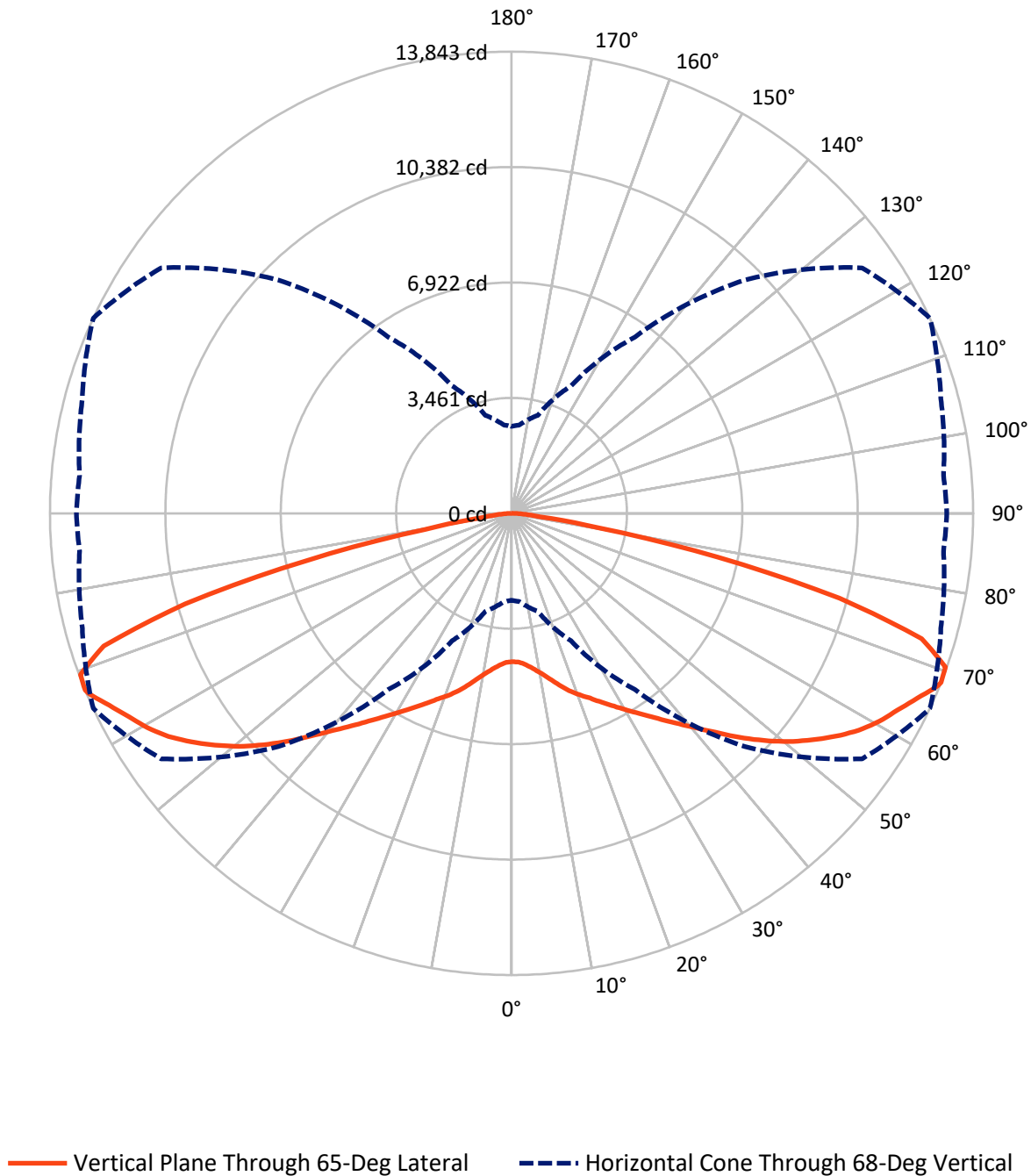
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 fc
 Type III - Short - N/A

REPORT NUMBER: P317051
CATALOG NUMBER: GAN-SA7C-727-U-RW

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	21383.0	0.0	21383.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	21383.0	0.0	21383.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	42766.0	0.0	42766.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	435.3	1.0
10°-20°	1457.8	3.4
20°-30°	2842.3	6.6
30°-40°	4774.8	11.2
40°-50°	7523.4	17.6
50°-60°	10061.2	23.5
60°-70°	9780.8	22.9
70°-80°	5346.7	12.5
80°-90°	543.8	1.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	42766.0	100.0
0°-180°	42766.0	100.0

Coefficient of Utilization



REPORT NUMBER: P317051

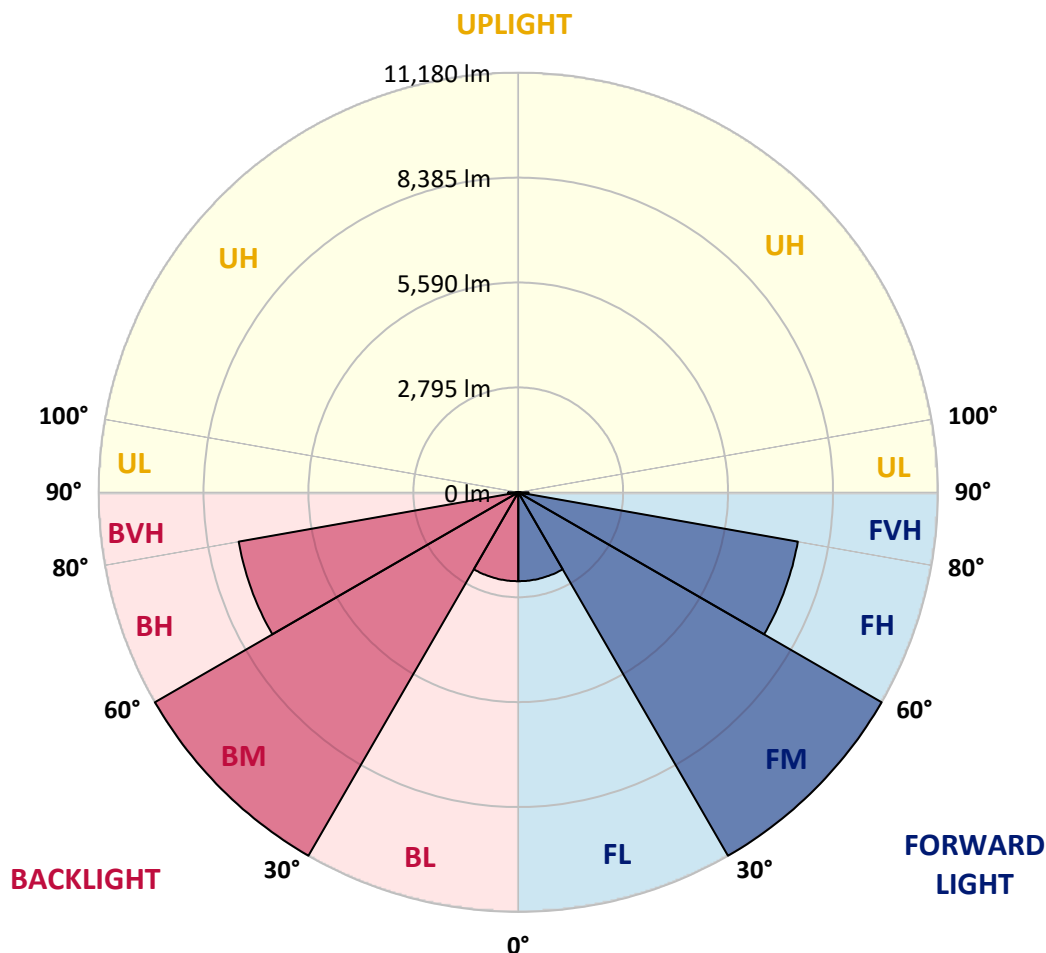
CATALOG NUMBER: GAN-SA7C-727-U-RW

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2367.7	5.5			
FM	(30°-60°)	11179.7	26.1			
FH	(60°-80°)	7563.7	17.7			G4/12000
FVH	(80°-90°)	271.9	0.6			G3/500
BL	(0°-30°)	2367.7	5.5	B3/2500		
BM	(30°-60°)	11179.7	26.1	B5		
BH	(60°-80°)	7563.7	17.7	B5		G5
BVH	(80°-90°)	271.9	0.6			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type III Short





REPORT NUMBER: P317051

CATALOG NUMBER: GAN-SA7C-727-U-RW

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4446.7	4446.7	4446.7	4446.7	4446.7	4446.7	4446.7	4446.7	4446.7	4446.7	4446.7
2.5°	4415.1	4416.5	4423.7	4432.3	4439.5	4458.1	4462.4	4469.6	4472.5	4479.6	4479.6
5°	4376.4	4379.3	4396.5	4419.4	4445.2	4491.1	4524.1	4561.4	4580.0	4600.1	4598.7
7.5°	4372.1	4379.3	4403.6	4440.9	4483.9	4559.9	4628.8	4703.3	4753.5	4799.4	4796.5
10°	4416.5	4428.0	4462.4	4518.4	4582.9	4677.5	4779.3	4879.7	4967.2	5037.4	5040.3
12.5°	4483.9	4498.3	4552.8	4637.4	4734.9	4856.8	4977.2	5090.5	5210.9	5315.6	5324.2
15°	4572.8	4591.5	4673.2	4799.4	4948.5	5093.4	5222.4	5338.6	5477.7	5622.5	5636.8
17.5°	4704.8	4730.6	4838.1	5008.8	5205.2	5364.4	5499.2	5586.6	5702.8	5851.9	5879.2
20°	4905.5	4938.5	5074.7	5278.3	5517.8	5684.2	5787.4	5806.0	5863.4	5996.8	6028.3
22.5°	5166.5	5195.2	5347.2	5589.5	5857.7	6038.3	6092.8	6018.3	6012.5	6120.1	6150.2
25°	5457.6	5483.4	5659.8	5932.2	6220.4	6419.8	6418.3	6273.5	6173.1	6256.3	6287.8
27.5°	5784.5	5824.7	5993.9	6280.7	6589.0	6785.4	6773.9	6550.3	6359.5	6381.0	6408.3
30°	6160.2	6204.7	6369.6	6660.7	6969.0	7161.1	7146.8	6851.4	6564.6	6507.2	6527.3
32.5°	6626.3	6679.3	6835.6	7122.4	7394.8	7568.4	7526.8	7178.3	6811.2	6686.5	6705.1
35°	7186.9	7218.5	7383.4	7665.9	7886.7	8005.7	7918.2	7556.9	7123.8	6973.3	6973.3
37.5°	7754.8	7779.1	7964.1	8238.0	8451.7	8514.8	8344.1	7971.3	7532.5	7318.8	7323.1
40°	8299.7	8365.6	8573.5	8854.6	9065.4	9082.6	8856.0	8444.5	7987.1	7766.2	7792.0
42.5°	8868.9	8933.5	9181.5	9499.9	9686.3	9715.0	9449.7	8975.1	8500.4	8321.2	8349.9
45°	9376.6	9428.2	9715.0	10084.9	10317.2	10391.8	10077.8	9583.0	9055.4	8880.4	8887.6
47.5°	9730.7	9798.1	10113.6	10549.5	10887.9	11002.6	10694.3	10175.3	9601.7	9389.5	9408.1
50°	10051.9	10087.8	10407.6	10883.6	11313.8	11550.4	11286.6	10760.3	10153.8	9928.6	9948.7
52.5°	10231.2	10277.1	10586.8	11082.9	11592.0	11973.4	11812.8	11286.6	10687.2	10467.8	10492.2
55°	10106.4	10140.8	10512.2	11127.4	11764.1	12234.4	12258.8	11801.4	11210.6	11018.4	11087.2
57.5°	9538.6	9581.6	10034.7	10840.6	11785.6	12410.8	12594.3	12278.9	11699.5	11543.2	11583.4
60°	8651.0	8678.2	9161.5	10067.7	11366.9	12483.9	12808.0	12668.9	12178.5	12022.2	12076.7
62.5°	7069.3	7109.5	7687.4	8901.9	10482.1	12267.4	13014.5	12991.5	12624.4	12481.0	12529.8
65°	4832.4	4902.7	5542.2	7077.9	9118.4	11604.9	13202.3	13367.2	13018.8	12838.1	12902.6
67.5°	2918.1	2969.7	3432.9	4673.2	6977.6	10268.5	13008.7	13794.5	13297.0	13005.9	13058.9
68°	2608.3	2655.7	3042.8	4217.2	6454.2	9891.3	12832.4	13843.3	13327.1	13003.0	13050.3
70°	1575.9	1607.5	1867.0	2606.9	4303.3	7846.5	11629.3	13803.1	13519.2	13043.1	13070.4
72.5°	1026.7	1036.7	1079.8	1337.9	2198.2	4387.9	8728.4	12862.5	13807.4	13276.9	13272.6
75°	853.2	847.5	851.8	881.9	1084.1	1924.4	5100.5	10160.9	13162.2	12908.4	12818.0
77.5°	721.3	717.0	715.5	717.0	725.6	929.2	2214.0	6329.4	10072.0	11418.5	11498.8
80°	583.6	577.9	596.5	587.9	562.1	577.9	927.8	2632.7	4747.8	5107.7	4786.5
82.5°	424.4	402.9	483.2	460.3	438.8	407.2	511.9	850.3	1132.8	777.2	546.3
85°	326.9	304.0	367.1	352.8	301.1	207.9	304.0	415.8	458.9	262.4	206.5
87.5°	133.4	140.5	265.3	209.4	176.4	100.4	124.8	166.3	223.7	111.8	86.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)